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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/677,048	09/30/2003	Kang-Chung Cheng	US920022	7711	
75	90 02/08/2005		EXAM	INER	
Han-Yi Lee			HARRISON, CHANTE E		
BAYSHORE PATENT GROUP, LLC. 520 Chantecler Dr.			ART UNIT	PAPER NUMBER	
Fremont, CA	Fremont, CA 94539			2675	
			DATE MAILED: 02/08/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/677,048	CHENG, KANG-CHUNG				
Office Action Summary	Examiner	Art Unit				
	Chante Harrison	2672				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1: after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be timy within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on <u>30 September 2003</u> .						
2a) This action is FINAL . 2b) ★ This	<u> </u>					
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) ⊠ Claim(s) 1-16 is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 1.4.6.7.11.13 and 14 is/are rejected. 7) ⊠ Claim(s) 2.3.5.8-10.12.15 and 16 is/are objecte 8) □ Claim(s) are subject to restriction and/o	wn from consideration. ed to.					
Application Papers						
9) The specification is objected to by the Examine	r.					
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex		• • • • • • • • • • • • • • • • • • • •				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applicationity documents have been received in PCT Rule 17.2(a)).	on No ed in this National Stage				
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:					

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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1, 4, 6-7, 11, 13 and 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Andrew Benson, US 5,650,800, 7/1997.

As per independent claim 1, Benson discloses a universal asynchronous receiver/transmitter interface for receiving state data for outputting said state data in a serial mode (i.e. UART supports the interface for loading information to microprocessor for output of system status) (col. 6, II. 46-55; Fig. 2 "54"); and a displaying device including: a microprocessor coupled to said universal asynchronous receiver/transmitter interface for outputting a displaying signal in corresponding to said state data output by said universal asynchronous receiver/transmitter interface (col. 5, II. 45-50).

Benson fails to specifically disclose a multi-segment display module coupled to said microprocessor for displaying a symbol in corresponding to said displaying signal.

Benson teaches a display having segmented areas for displaying system data (Fig. 6), where the segmented display areas correspond to areas of the display that are able to accept user input.

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It would have been obvious to one of skill in the art to incorporate a multisegment display module with the disclosure of Benson because multiple interactive display areas creates multiple segments on the display module for displaying status data.

As per dependent claims 4, 11 and 13, Benson discloses said symbol is selected among a numeral, an English letter and a specific character (Fig. 6).

As per dependent claim 6, Benson discloses said state data output by said universal asynchronous receiver/transmitter interface is of a specification of RS-232 (col. 6, II. 47-51).

As per dependent claim 7, Benson discloses said state-displaying device is connected externally to a serial port (Fig. 2).

As per dependent claim 14, Benson disclose said state data is generated by a BIOS program of said data processing device (i.e. microprocessor provides system status based on conditions which are stored in the BIOS module) (col. 8, II. 3-10; col. 5, II. 45-50).

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1. Claims 2-3, 5, 8-10, 12, 15-16 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chante Harrison whose telephone number is 703-305-3937. The examiner can normally be reached on Monday - Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mike Razavi can be reached on 703-305-4713. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Chante Harrison Examiner Art Unit 2672

Ceh January 18, 2005

> MICHAEL RAZAVI SUPERVISORY PATENT EXAMINER

TECHNOLOGY CENTER 2600

10/617,048

What is claimed is:

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- A state-displaying device for displaying state data generated by a data-processing
- 2 device, said state-displaying device comprises:
- 3 a universal asynchronous receiver/transmitter interface for receiving state data
- od 6455 what supports the interso and of 2.2"54" Son locking into do miceo process de output of system status for outputting said state data in a serial mode; and 4
- 5 a displaying device including:
- 6 microprocessor coupled said universal asynchronous

receiver/transmitter interface for outputting a displaying signal in corresponding to

- 8 said state data output by said universal asynchronous receiver/transmitter interface;
- cd. 5, 45 50 9 and
- 10 a multi-segment display module coupled to said microprocessor for
- displaying a symbol in corresponding to said displaying signal. Ag. 3, Ag. 6 11
 - 2. The state-displaying device as in claim 1, wherein said multi-segment display 1
- 2 module at least is composed of a seven- segment display.
- 1 3. The state-displaying device as in claim 1, wherein said data-processing device is
- 2 selected between a server and a personal computer.
- 4. The state-displaying device as in claim 1, wherein said symbol is selected among a Sig. 6 numeral, an English letter and a specific character.
 - /5. The state-displaying device as in claim 1, wherein said universal asynchronous
 - 2 receiver/transmitter interface includes a data transmitting line Tx, a data receiving
 - 3 line Rx, a power line and a grounding line (Gnd).
 - 6. The state-displaying device as in claim 1, wherein said state data output by said 1
 - 2 universal asynchronous receiver/ transmitter interface is of a specification of
 - col. b, & 47-51 RS-232. 3
 - 1. The state-displaying device as in claim 1, wherein said state-displaying device is

- 2 connected externally to a serial port.
- 8. The state-displaying device as in claim 1, wherein said state data includes an on/off
- 2 bit, at least a command mode bit and a plurality of displaying bits, said command
- mode bit is used to define a mode of displaying of said displaying bits, said
- 4 microprocessor decides a mode of displaying of said multi- segment display module
- 5 according to said mode of displaying of said displaying bits.
- 9. The state-displaying device as in claim 8, wherein said command mode bit is used
- 2 to decide between a searching mode and a following-the-sequence mode.
- 1 10. The state-displaying device as in claim 9, wherein when said microprocessor
- decides that a mode of displaying of said multi-segment display module is said
- 3 searching mode, it makes said multi-segment display module to display said symbol
- 4 according to said displaying signal which is generated by searching in a table
- 5 according to values of said displaying bits.
- 1 The state-displaying device as in claim 10, wherein said symbol is selected among
- a numeral, an English letter and a specific character.
- 1 12. The state-displaying device as in claim 9, wherein when said microprocessor
- decides that a mode of displaying is said following-the-sequence mode, a selecting
- 3 bit of said displaying bits is used to designate a seven-segment display to be enabled,
- 4 and said enabled seven-segment display is rendered to display said symbol according
- 5 to the state of a plurality of segment- selecting bits of said displaying bits.
- 1 The state-displaying device as in claim 12, wherein said symbol is selected among
- a numeral, an English letter and a specific character.
- 1 14. The state-displaying device as in claim 1, wherein said state data is generated by a
- 2 BIOS program of said data-processing device. w. 3. 3. 0.
- 1 15. The state-displaying device as in claim 1, wherein said state data is generated by a bios will

- 2 detecting application program of said data-processing device.
- 1 16. The state-displaying device as in claim 15, wherein said detecting application
- 2 program is executed in an operating system of said data-processing device.